

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query   | DBs                | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|--------------------|------------------|---------|---------------------|
| L1    | 35    | 359/618.ccls. and @pd>="20100731"  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:09 |
| L2    | 587   | 359/619,621,623,627;355/71,53,67;372/103.ccls. and @pd>="20100731"   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L3    | 1     | "20070273957"  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L4    | 7     | ((("4,995,693") or ("5,195,103") or ("5,682,265") or ("6,563,567") or ("6,542,531") or ("6,546,029") or ("20020191913")).PN. | US-PGPUB;<br>USPAT | OR               | OFF     | 2011/04/11<br>07:10 |
| L5    | 1256  | 359/618.ccls.  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L6    | 12609 | 359/619,621,623,627;355/71,53,67;372/103.ccls.   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L7    | 12827 | 359/619,621,623,627,639;355/71,53,67;372/103.ccls.   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L8    | 3470  | spatially near5 light near5 beams  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L9    | 18126 | beam near5 shaping   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L10   | 415   | L8 and L9  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L11   | 63    | L8 same L9   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L12   | 226   | combin\$4 near20 (spatially near5 light near5 beam)  | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L13   | 19    | combin\$4 near20 (spatially near5 light near5 beam) same diffract\$4   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |
| L14   | 3     | spatially near5 seperated near5 (light beam)   | US-PGPUB;<br>USPAT | OR               | ON      | 2011/04/11<br>07:10 |

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| L15 | 3604  | spatially near5 separated near5 (light beam)   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L16 | 534   | (spatially near5 separated near5 (light beam)) same diffract\$5  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L17 | 44    | (spatially near5 separated near5 (light beam)) same (diffract\$5)<br>same (combin\$3 near5 (light beam))                   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L18 | 4     | ((spatially near5 separated near5 (light beam)) same (diffract\$5)<br>same (combin\$3 near5 (light beam)))) same intensity | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L19 | 19    | combin\$4 near20 (spatially near5 light near5 beam) same diffract\$4   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L20 | 40    | L17 not L19  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L21 | 11    | (spatially near5 separated near5 (light beam)) same (increas\$3<br>near5 intensity)  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L22 | 1     | (combining near5 spatially near5 separated near5 (light beam))<br>same (increas\$3 near5 intensity)                        | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L23 | 37    | (combining near5 spatially near5 separated near5 (light beam))   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L24 | 350   | rectangular near10 intensity near10 profile  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L25 | 1256  | 359/618.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L26 | 2     | L25 and L24  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L27 | 12827 | 359/619,621,623,627,639;355/71,53,67;372/103.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L28 | 19    | L24 and L27  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L29 | 162   | Dammann near3 grating  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L30 | 5     | L27 and L29  | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |
| L31 | 184   | tophat   | US-PGPUB;<br>USPAT | OR | ON | 2011/04/11<br>07:10 |

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|-----|-----|---|---------------------------|----|-----|---------------------|
| L32 | 58  | tophat near20 (beam light)  | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L33 | 1   | L32 and (L25 L27)   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L34 | 4   | L31 and (L25 L27)   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L35 | 68  | combining near20 (spatially adj5 separated) near10 (light beam)   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L36 | 10  | (combining near20 (spatially adj5 separated) near10 (light beam)) same (grating diffract\$4)  | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L37 | 248 | (combining near5 (light beams)) same (increas\$3 near5 (intensity brightness))  | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L38 | 0   | ((combining near5 (light beams)) same (increas\$3 near5 (intensity brightness))) near20 diffraction   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L39 | 10  | ((combining near5 (light beams)) same (increas\$3 near5 (intensity brightness))) same diffract\$3   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L40 | 1   | ("4701005").PN.   | US-PGPUB;<br>USPAT        | OR | OFF | 2011/04/11<br>07:10 |
| L41 | 32  | ("3619023"   "3743376"   "4054356"   "4148549"   "4312559"   "4355858"   "4393126"   "4416505"   "4447111"   "4465332").PN.<br>OR ("4701005").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2011/04/11<br>07:10 |
| L42 | 0   | invers near5 dammann near3 grating  | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L43 | 1   | inverse near5 dammann near3 grating   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L44 | 162 | dammann near3 grating   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L45 | 170 | dammann near5 grating   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L46 | 1   | (dammann near5 grating) near10 (opposite inverse)   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L47 | 5   | L27 and L45   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |
| L48 | 1   | inverse near5 dammann   | US-PGPUB;<br>USPAT        | OR | ON  | 2011/04/11<br>07:10 |

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| L49 | 184  | tophat   | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L50 | 0    | (L25 and L27) and L49  | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L51 | 136  | L49 and (light beam)   | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L52 | 60   | tophat same (light beam)   | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L53 | 16   | tophat same (light beam) same diffract\$3  | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L54 | 44   | ((spatially near5 separated near5 (light beam)) same (diffract\$5)<br>same (combin\$3 near5 (light beam))) | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:10 |
| L55 | 549  | spatially near5 light near5 beams  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L56 | 4675 | beam near5 shaping   | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L57 | 18   | combin\$4 near20 (spatially near5 light near5 beam)  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L58 | 1    | combin\$4 near20 (spatially near5 light near5 beam) same diffract\$4                                       | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L59 | 459  | spatially near5 separated near5 (light beam)   | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L60 | 1    | combin\$4 near20 (spatially near5 light near5 beam) same diffract\$4                                       | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L61 | 27   | rectangular near10 intensity near10 profile  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L62 | 5    | combining near20 (spatially adj5 separated) near10 (light beam)  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |

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| L63 | 27     | (combining near5 (light beams)) same (increas\$3 near5 (intensity brightness)) | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L64 | 21     | dammann near3 grating  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L65 | 1      | tophat same (light beam) same diffract\$3                                      | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L66 | 18     | L56 and L55  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L67 | 1      | L56 and L59  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L68 | 2      | L59 and L61  | FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2011/04/11<br>07:10 |
| L69 | 0      | light near3 sourc3.clm.  | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:12 |
| L70 | 162508 | light near3 source.clm.  | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:12 |
| L72 | 36     | dammann near3 grating.clm.   | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:12 |
| L73 | 3041   | beam near4 shaping.clm.  | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:12 |
| L74 | 2      | 70 and 72 and 73   | US-PGPUB;<br>USPAT            | OR | ON | 2011/04/11<br>07:13 |

### EAST Search History (Interference)

| Ref # | Hits   | Search Query          | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|--------|-----------------------|-------------|------------------|---------|------------------|
| L75   | 279338 | light near3 source    | USPAT; UPAD | OR               | ON      | 2011/04/11 07:13 |
| L76   | 91     | dammann near3 grating | USPAT; UPAD | OR               | ON      | 2011/04/11 07:13 |
| L77   | 9617   | beam near4 shaping    | USPAT; UPAD | OR               | ON      | 2011/04/11 07:13 |

|     |    |                  |             |    |    |                  |
|-----|----|------------------|-------------|----|----|------------------|
| L78 | 11 | 75 and 76 and 77 | USPAT; UPAD | OR | ON | 2011/04/11 07:14 |
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**4/11/2011 7:30:38 AM**

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